

## Product datasheet for **AP12853PU-N**

### Tuberin (TSC2) pSer664 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Recommended Dilution:	ELISA: 1/1,000. Dot Blot: 1/500.
Reactivity:	Human
Host:	Rabbit
Isotype:	Ig
Clonality:	Polyclonal
Immunogen:	KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding Ser664 of Human TSC2.
Specificity:	This antibody detects TSC2 pSer664.
Formulation:	PBS with 0.09% (W/V) Sodium Azide as preservative. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein A Affinity Chromatography. Then, the antibody fraction is peptide affinity purified in a 2-step procedure with peptides. The antibody is eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	tuberous sclerosis 2
Database Link:	<a href="#">Entrez Gene 7249 Human P49815</a>



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**Background:**

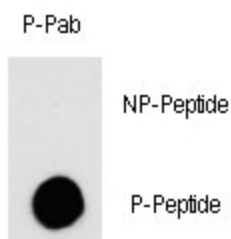
Mutations in TSC2 lead to tuberous sclerosis complex. The protein is believed to be a tumor suppressor and is able to specifically stimulate the intrinsic GTPase activity of the Ras-related protein RAP1A and RAB5. The protein associates with hamartin in a cytosolic complex, possibly acting as a chaperone for hamartin. TSC2 may have a function in vesicular transport, but may also play a role in the regulation of cell growth arrest and in the regulation of transcription mediated by steroid receptors. Interaction between TSC1 and TSC2 may facilitate vesicular docking.

**Synonyms:**

Tuberous sclerosis 2 protein, TSC4

**Note:**

**Calculated Molecular Weight:** 200749 Da

**Product images:**

Dot blot analysis of anti-TSC2 pSer664 Phospho-specific antibody on Nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per Dot were adsorbed. Antibody working concentrations are 0.5 ug/ml.

Dot Blot